

Title (en)

Regulator with expansion tank for underwater breathing apparatus

Title (de)

Regler mit Expansionsgefäß für Unterwasseratemgerät

Title (fr)

Régulateur avec vase d'expansion pour appareil de respiration sous-marine

Publication

EP 2246250 A2 20101103 (EN)

Application

EP 10173333 A 20040513

Priority

- EP 04102087 A 20040513
- IT SV20030026 A 20030606

Abstract (en)

A regulator for underwater breathing apparatus comprising a first stage (10) for reducing pressure from a high pressure to a low intermediate pressure (12) and a second stage (12) for reducing pressure from the intermediate pressure to a low breathing pressure, the outlet of the first stage (10) being sealingly connected to the inlet of the second stage (12) by means of a connection hose (11, 11', 11''), in which, between the first stage (10) and the second stage (12), there is provided at least one expansion tank (1, 2, 3) having the function of a storage tank and such a size as to contain, at the intermediate pressure provided at the outlet of the first stage (10) and at the inlet of the second stage (12), a volume of air corresponding to at least a fraction or the whole of the volumetric lungs' air demand during one inhalation, and at the breathing pressure, i.e. the one provided at the outlet of the second stage (12).

IPC 8 full level

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CPC (source: EP US)

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